

Please replace the Abstract with the following Abstract:

Automated Installation of Network Service in a Telecommunications Network
Abstract of the Invention

~~Network service request for a~~ A communication line is installed in a network by automating a design phase and a configuration phase for the service and ~~further~~ by automating the failure recovery ~~from a failure in~~ either of the phases. In the design phase, an optimal route for the communication line ~~to satisfy the required capacity~~ is found, and the network components are provisioned and assigned. If the assigned network components are not available or can not be validated ~~so that the design fails~~, the components causing the failure are marked, and the ~~operation flow reverts back to retry the design phase~~ is retried without the marked components. After the design phase ~~is successfully completed~~, the configuration phase begins. ~~In the first part of configuration phase, the~~ The circuit design is tested against actual network components. If the test is passed, the actual network is configured according to the circuit design and the circuit is activated. If there is a network component failure during the configuration phase, the good route elements in the design are released while the failed network components are marked. ~~The design is purged from the system and the operational flow returns to retry the design phase~~ is retried. ~~This automated operational flow repeats until a circuit design is found that may be validated and configured.~~